

Abstract of Disclosure

Upon receiving a check request 300 from a management system 250, a controller 230 sends a switching request 310 to an optical switch driver 165. The optical switch driver 165 sends a drive signal 320, and an optical switch 160 switches from a first transmission line 120 to a second transmission line 130. A receive signal performance monitor 190 sends a sensing result 330 for the second transmission line 130 to the controller 230. The controller 230 sends a switch-back request 340, and the optical switch 160 switches from the second transmission line 130 to the first transmission line 120. Based on information from the receive signal performance monitor 190, a first transmission line optical sensor 210, and a second transmission line optical sensor 220, the controller 230 performs a sensing result save 360 in a memory 240. A management system 250 saves a results report 400 from the controller 230 in a memory device.

The following is a summary of the disclosure.